Please type a plus sign (+) inside this box -> +

PTC/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DEC 2 9 2003

TRADENE.

Sheet

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of

Complete if Known					
Application Number	10/705,444				
Filing Date	NOVEMBER 10, 2003				
First Named Inventor	RAY C. SMITH				
Group Art Unit	3672				
Examiner Name	F. TSAY				
Attorney Docket Number	004222 U1D2 USA				

	U.S. PATENT DOCUMENTS								
xaminer nitials	Cite No.1	U.S. Patent Document Number Kind Code ² (if known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			
		•							
				·					
				· · · · · · · · · · · · · · · · · · ·					
				 					
					ļ				
					<u> </u>				
			-						

				FOR	IGN PATENT DOCUMENT	rs		
Examiner Initials	Cite No.1	Office ³	oreign Patent Doci Number ⁴	ument Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Té
\mathcal{A}		wo	00/61908	A1	SHELL INTERNATIONALE	10-19-00		
1		GB	2,345,308	A	PETROLINE WELLSYSTEMS	07-05-00		
								
				\dashv				+
							-	T

Examiner Signature	Frac 188	Date Considered	1/27/05
`			

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

[&]quot;EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). * For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. * Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box → +

PTO/SB/08A (08-00)
Approved for use through 10/31/2002 OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE or the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute fo	r form 1449A/	РТО		Complete if Known			
				Application Number	UNASSIGNED (0)	7707449	
INFOR	INFORMATION DISCLOSURE			Filing Date	HERPWITH ///	70 3 i	
STATI	EMENT	BY APP	PLICANT	First Named Inventor	RAY C. SMITH		
				Group Art Unit	UNASSIGNED 367	2	
(us	e es meny :	sheets as nec	essery)	Examiner Name	UNASSIGNED /S/A	ᅜ	
Sheet	1	of	2	Attorney Docket Number	004222 U1D2 USA	7	

U.S. PATENT DOCUMENTS								
cxaminer Cite	U.S. Patent Document Kind Code Number (# known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear				
77	5,044,441	RUBBO et al.	09-03-91					
//	5,579,829	COMEAU et al.	12-03-96					
7	5,620,052	TURNER	04-15-97	_				
$T \perp$	5,865,255	HAMMETT et al.	02-02-99					
7	6,003,607	HAGEN et al.	12-21-99					
7	6,053,248	ROSS	04-25-00					
	6,125,937	LONGBOTTOM et al.	10-03-00					
77	6,135,208	GANO et al.	10-24-00					
<u></u>			·					
				•				

	FOREIGN PATENT DOCUMENTS										
Examiner	Cite	F	oreign Patent Doc	ument Kind Code	Name of Patentee or	Date of Publication of	Pages, Columns, Lines, Where Relevant	Π			
Initials	No.1	Office ³	Number ⁴	(if known)	Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	78			
77		GB	2,368,862	· A	SMITH INTERNATIONAL, INC.	05-15-02					
/ '			•								
								\Box			
		 		- +		 		┼			
		 				 		₩			
		 				 		╁			
						1		T			
							· · · · · · · · · · · · · · · · · · ·				

1	Examiner	. ,		Date	, /	
ı		_	(/ ()	Cascidamed	l (/o	7/10
Į	Signature	1/2	20	Considered	1 / 2	//01

Burden Hour Statement; This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, OC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

+

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw tine through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Occuments. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁴ Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box \rightarrow	+	I
---	---	---

PTO/SB/08B (08-00)
Approved for use through 10/31/2002, OMB 0551-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under th	ne Paperw	ork Reduction A	ct of 1995, no	persons are required to re	U. S. Patent and Trademark Off	ice: U.S. DEPARTMENT OF COMMERCE ss it contains a valid OMB control number.	
	Substitute for form 1449B/PTO				C mple	te If Known	1
					Application Number	MASSIGNED (0/ 70 14	XX
	INFORMATION DISCLOSURE		Filing Date	HERSWITH (1/10 03			
	STATEMENT BY APPLICANT				First Named Inventor	RAY C. SMITH	
1	OTATEMENT BY ALL ELEVANT				Group Art Unit	UNASSIGNED 367C	
		(use as mai	ny sheets a	s necessary)	Examiner Name	UNASSIGNED (S/4)	
	haat I	2	of	2	Attorney Docket Number	004222 U1D2 USA	

	OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS								
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	L3						
7		SPERRY-SUN MULTILATERAL SERVICES PROFILE, "SPERRY-SUN LATCH COUPLING", dated 2000							
/ . /									
			-						
		•							
-									

Examiner Signature Acc Solution	Date Considered	1/27/05
---------------------------------	--------------------	---------

"EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the Individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. 2 Applicant is to place a check mark here if English tanguage Translation is attached.